


**Product Data Sheet / Produkt Datenblatt**

|                            |   |                        |
|----------------------------|---|------------------------|
| <b>Part Number</b>         | <b>5474.42.1412.213</b>   | <b>Teilenummer</b>     |
| <b>Description</b>         | <b>SMA - Kabelstecker rev. pol.<br/>SMA - Cable mount plug rev. pol.</b>          | <b>Beschreibung</b>    |
|                            |  |                        |
| <b>Design according to</b> | <b>SMA reverse polarity (No IEC - Standard)</b>                                   | <b>Ausführung nach</b> |

**Electrical characteristics / Elektrische Eigenschaften**

|                                    |               | colored value means:<br>under validation |              |                                     |
|------------------------------------|---------------|--|--------------|-------------------------------------|
|                                    |               | Value/Wert                               | Unit/Einheit |                                     |
| Impedance (MIL-C-39012B)           |               | 50                                       | [Ω]          | Impedanz (MIL-C-39012B)             |
| Operating frequency up to          |               | 6  | [GHz]        | Betriebsfrequenz bis zu             |
| Measured with following cable type | IPEX MHF4     |  |              | Mit folgende Kabeltyp gemessen      |
| Return loss                        | 1 GHz         | > 23                                     | [dB]         | Rückflusdämpfung                    |
|                                    | 2 GHz         | > 19                                     | [dB]         |                                     |
|                                    | 4 GHz         | > 15                                     | [dB]         |                                     |
|                                    | Murata MXTK88 |  |              |                                     |
|                                    | 1 GHz         | > 23                                     | [dB]         |                                     |
|                                    | 2 GHz         | > 20                                     | [dB]         |                                     |
|                                    | 4 GHz         | > 17                                     | [dB]         |                                     |
| Insulation resistance              |               | > 10                                     | [GΩ]         | Isolationswiderstand                |
| Contact resistance                 |               |  |              | Kontakt-Widerstand                  |
| Centre contact                     |               | ≤ 3                                      | [mΩ]         | Innenkontakt                        |
| Outer contact                      |               | ≤ 2                                      | [mΩ]         | Außenkontakt                        |
| Contact current max. (DC)          |               | 0,1                                      | [A] DC       | Kontakt-Strombelastbarkeit max (DC) |
| Operating voltage                  |               | ≥ 250                                    | [VRMS]       | Betriebsspannung                    |
| Proof voltage                      |               | 500                                      | [VRMS]       | Prüfspannung                        |

**Mechanical characteristics / Mechanische Eigenschaften**

|               |  | Value/ Wert | Unit/Einheit |             |
|---------------|--|-------------|--------------|-------------|
| Mating cycles |  | > 500       |              | Steckzyklen |

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**Material & plating / Material & Oberfläche**

| General: No magnetic nickel allowed in any of the materials. | RoHS (2002/95/EC) conform |                       | Allgemein: Kein magnetisch Nickel in den verwendeten material erlaubt. |
|--|---------------------------|-----------------------|--|
|  | Material/Material         | Plating/Oberflächen   |  |
| Housing  | Brass                     | Ni-P + 0,15µm Au      | Gehäuse  |
| Contact pin  | Brass                     | Ni + Ni-P + 0,15µm Au | Kontaktstift   |
| Nut  | Brass                     | Ni-P + 0,15µm Au      | Mutter   |
| Fandisk  | Bronze                    | Ni-P + 0,15µm Au      | Scheibe  |
| Insulator  | PTFE                      | -                     | Isolierung   |
| Main part  | Brass                     | Ni + 0,2µm Au         | Anschlussstück   |
| Crimp ferrule  | Brass                     | Cu + Ni + 0,2µm Au    | Crimphülse   |

**Environmental influences / Umwelteinflüsse**

|                                |                                |                                      |
|--------------------------------|--------------------------------|--------------------------------------|
| Operating temperature range    | -55°C up to +125°C<br>Standard | Betriebstemperaturbereich            |
| Climatic sequence:             | IEC 60068-2-61                 | Klimafolge:                          |
| 1. Dry heat                    | IEC 60068-2-2-Ba               | 1. Trockene Hitze                    |
| 2. Damp heat, cyclic, 1 cycle  | IEC 60068-2-30-Db              | 2. Feuchte Wärme, zyklisch, 1 Zyklus |
| 3. Cold                        | IEC 60068-2-1-Aa               | 3. Kälte                             |
| 4. Damp heat, cyclic, 6 cycles | IEC 60068-2-30-Dd              | 4. Feuchte Wärme, zyklisch, 6 Zyklen |
| Solder profile                 |                                | Lötprofil                            |

**Notes / Aufzeichnungen**

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

**Update History**

| Rev. | Date | Signature | Alteration                  |
|------|------|-----------|-----------------------------|
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|      |      |           |                             |
|      |      |           | Formblatt-Nr.: Form-TK-013b |
|      |      |           | Rev. 04                     |
|      |      |           | Released 17.04.14           |